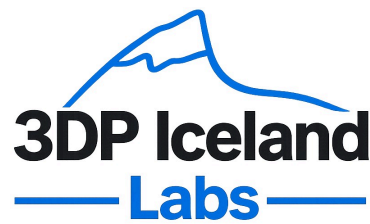


Public printing recommendation

Yasin Standard Blue PEBA Blue

MaterialID MAT0262



3DPiceland Labs
Generated with 3DPiceland Engineering Platform v70.0.4
DIRECT-IMPACT-METHODOLOGY - Izod and Charpy
Methodology
2026-10-04 18:12:06

Guidance boundary: values below are shared base-material guidance resolved only through the canonical BaseMaterialId link. They are not manufacturer-, spool- or printer-specific validated settings. Missing fields remain Not recorded.

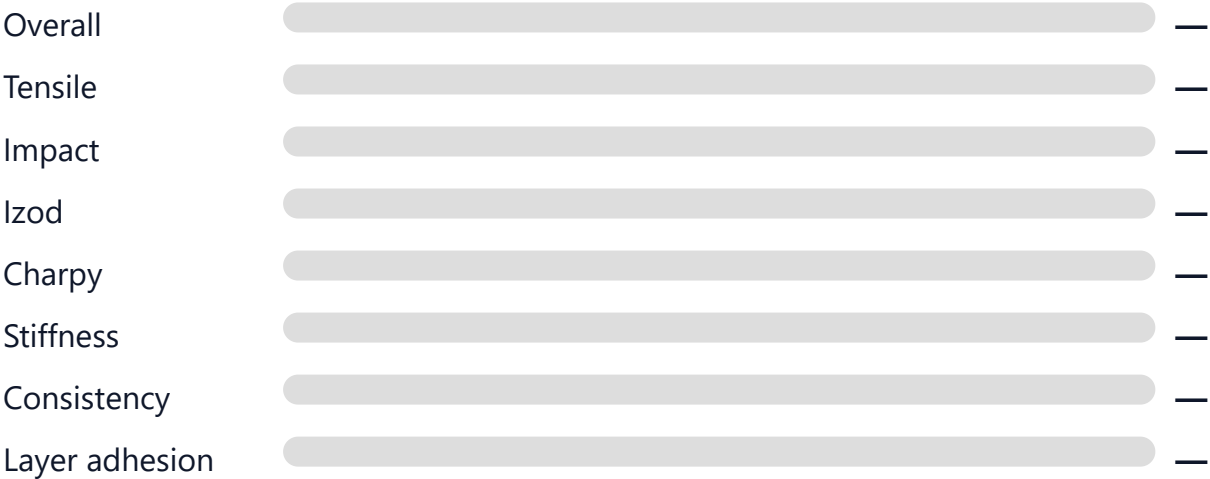
Overall
—

Engineering axes
0/8

Public rank
—

MSRP USD/kg
64.16

Engineering profile



Recommended applications

- Application guidance awaits sufficient measured evidence and approved score references

Measured strengths

- No scored strength is available yet.

Limitations

- No scored limitation can be established from the available evidence.

Engineering trade-offs

- Complete scoring evidence and approved method references are required before assessing an overall balance of properties.

Base-material printing guidance

Guidance	Minimum	Recommended	Maximum	Unit
Nozzle temperature	250	250	250	°C
Bed temperature	90	90	100	°C
Print speed	11	30	30	mm/s
Cooling	65	65	65	%
Guidance	Value			Unit
Cooling guidance	Moderate			
Drying temperature	80			°C
Drying time	12			hours
Enclosure	Recommended			
Printer / G-code reference	PrusaCoreOneL			
Slicer profile reference	Yasin PEBA			

Print workflow checks

- Confirm nozzle temperature, bed temperature, speed, cooling and drying requirements from the manufacturer profile or spool label.
- Print a small validation part before committing to a long, costly or safety-relevant print.
- Orient the part so the governing load does not rely on an unverified or weak engineering axis.
- Layer-adhesion evidence is weak; avoid critical Z-axis loading without additional validation.
- Repeatability is low on the internal scale; run extra validation specimens before relying on the profile.

Decision guidance

- Overall suitability is unavailable until the required measurements and method references are complete.

Stronger same-family alternatives

MaterialID	Material	Manufacturer	Overall	Tensile	Impact	Izod	Charpy
Confirm exact settings against the manufacturer profile, spool label and actual printer/material combination. Results do not replace application-specific validation.							

[Testing methodology](#) · [Download PDF](#)

Flexible Material Testing

Comparative in-house measurements; n = independent specimens. Separate test groups; Overall unchanged.

Method	Result	Condition	Mean	n	SD	CV %	Range	Not reached
eaacea91	Apparent Compressive Stress at 20% Strain (MPa)	10 s hold · 2 mm displacement · cycle 1	4.162	10	0.09	2.164	3.961–4.276	0
eaacea91	Apparent Compressive Stress at 20% Strain (MPa)	30 s hold · 2 mm displacement · cycle 1	4.041	10	0.093	2.308	3.835–4.15	0
eaacea91	Compression Force at 20% Strain (N)	10 s hold · 2 mm displacement · cycle 1	264.8	10	5.731	2.164	252–272	0
eaacea91	Compression Force at 20% Strain (N)	30 s hold · 2 mm displacement · cycle 1	257.1	10	5.934	2.308	244–264	0
eaacea91	Force reduction from 10 s to 30 s at 20% Strain (%)	first compression only · 2 mm displacement	2.91	10	0.275	9.452	2.222–3.175	0
eaacea91	Force retention at 20% Strain (%)	10–30 s · 2 mm displacement · cycle 1	97.09	10	0.275	0.283	96.825–97.778	0
eaacea91	Residual height loss after recovery (%)	20% compression · 30 s compressed hold · 60 s rest · 10 mm initial height · cycle 1	2.29	10	0.12	5.228	2.1–2.5	0
ed381ba8	Shore A Hardness (Shore A)	10 s reading · 8 mm	92.74	1	—	—	92.74–92.74	0

Shore location statistics

Within each specimen; specimen numbers are local to each test group. SD uses the sample formula. These readings do not increase independent n.

Method	Scale	Condition	Specimen	Readings	Mean	Location SD	Location CV %
ed381ba8	Shore A Hardness	10 s reading · 8 mm	1	5	92.74	1.436	1.549

reports/printing-recommendations/MAT0262/

Score policy engineering-score-v70-1: Overall requires tensile, stiffness, consistency, layer adhesion and the Izod/Charpy impact family, each with equal weight. Both impact methods and configured versioned references are required. Missing results and unconfigured scores remain n/a. Legacy Impact is historical only; thermal remains separate. Engineering-axis counts describe displayed evidence, not Overall completeness.